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HIGHLIGHTS

California and Florida accounted for 77 percent of the value of 1970 U.S. gladiolus production (mostly in Florida), and 46 percent of the total value of carnations and standard chrysanthemums (nearly all in California). Together, the two States also produced about 57 percent of the total market value of pompon chrysanthemums and 27 percent of the potted mums. California alone produced nearly 27 percent of the total value of roses sold in 1970.

Shipment of these floral crops to out-of-State markets was handled by approximately 140 firms. Eighty-three firms shipped from California, 58 from Florida. Approximately 70 percent of the shippers in the two States were growers, 28 percent were wholesalers, and 2 percent were grower congretatives or pools. Data on 50 firms are included in this study.

Most were medium-sized shippers, with gross sales of the six specified flowers of \$100,000 to \$500,000. However, 12 percent of the growers interviewed and 22 percent of the wholesalers exceeded \$1 million in sales. The smaller shippers, both growers and wholesalers, are concentrated in California.

The number and importance of small growers and of wholesalers in the shipping point markets are decreasing. Brokers of floral crops have virtually disappeared, although several Florida growers act as brokers in obtaining supplies of floral products needed by their regular customers during the nonproduction season in Florida.

Integration by growers has extended forward along the marketing chain to include distribution to retail establishments in the distant consumption areas. More than 25 percent of the growers interviewed made out-of-State shipments to retail florists in 1970, and sales to grocery chains are increasing in importance.

Backward integration also has occurred, but to a lesser extent. Wholesale florists in certain areas have begun growing operations, and retail florists have assumed wholesaling functions through sales to other retailers,

Very little product differentiation is possible in marketing the six specified floral crops. Most shippers stress consistent quality of product as the most important competitive factor and many identify shipments with a brand or firm name to build a reputation for their product. Many larger volume shippers offer special packing services for customers. Consumer packaging of carnations and other flowers is the most important customer service offered by California shippers; in Florida, it is special packing of various sizes of shipping containers for customers who

either require odd-lot shipments or wish to reship small quantities to their own customers without repacking. Several Florida shippers utilize sales representatives in contacting retail florists. There are few barriers to entry of new firms in either growing or wholesaling of floral

crops, although capital requirements are constantly increasing.

The most important markets for out-of-State shipments from each of the shipping points studied are the highly populated North Central and Northeastern regions. Florida shippers also make a large proportion of shipments to the Southern States, and the California firms make important sales in the Mountain and West South Central regions.

Most shipments made by California and Florida shippers move as sales to wholesalers in larger cities. Direct sales to retail florists are second in importance to these shippers, and consignments to wholesalers are third. California shippers make relatively fewer consignments in out-of-State markets than do Florida firms because California growers can consign to wholesale markets within the State.

Air freight is the most important mode of transportation for shipments of flowers from California. for potted chrysanthemums. Truck transportation remains most important in Florida because of the specialized trucking services developed there for floral products and the proximity of the area to large urban markets. Because of their bulk and weight, most potted chrysanthemums move by truck.

Price differences between areas were apparent. The California firms generally received the lower prices except for gladioli, for which the lower prices were received by Florida shippers. The prices estimated were those for all flower sales of respondents, not just out-of-State shipments.

Most shippers believe there are no differences in prices among the out-of-State markets to which they ship, although approximately 25 percent believe that larger wholesale flower markets offer consistently lower prices than those received in sales to wholesalers and retail florists in smaller cities and towns.

At least a limited number of respondents in California and Florida expect increased production of poinsettias because of the improved shipping qualities of new varieties that have been developed.

Some Florida wholesalers import carnations, standard and pompon chrysanthemums, and gladioli from South America and Guatemala, and many growers expect important increases in foreign competition.

Shipping Point Markets for Flowers: Practices and Problems of California and Florida Shippers

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INTRODUCTION

Technological developments in handling, packaging, and transporting cut flowers and flowering plants as well as shifts in the relative importance of flower production areas suggest fundamental changes in the marketing and shipping of these products. This study analyzes changes in the organization, marketing, and shipping practices of shipping point markets for selected cut flowers and flowering plants in the major producing areas of California and Florida. The floral crops selected for study were carnations, gladioli, roses, and standard, pompon and potted chrysanthemums.

Analysis and data collection were limited to firms that perform the shipping function in the indicated shipping point markets. Specific objectives of the study

are the description and evaluation of:

- Market organization, including identification of the types and numbers of firms that perform the shipping function and their sources of supply.
- Marketing and shipping practices used by shippers, including the geographic areas and types of customers to which shipments are made.
- Market performance, considered as the impact of organization and marketing practices upon such variables as prices, volumes, and success of firms.
- Expected trends in demand, production areas, and types of firms.

CHARACTERISTICS OF SHIPPING POINT MARKETS

Location and Value of Production—The production areas in California are the coastal regions around San Francisco and Los Angeles. Florida production extends along both east and west coasts.

California is an important State in sales of each of the six flowers, but carnations and roses are most important. In 1970, carnations grossed California growers \$21.9

million while roses brought \$14.1 million. Standard chrysanthemums rank third, followed by pompons, gladioli, and potted chrysanthemums. Gladioli are the most important Florida floral crop, followed by pompons. Standard and potted chrysanthemums are approximately equal in importance in Florida, Carnations and roses are minor.

Table 1.—Carnations, chrysanthemums, gladioli, and roses: Gross wholesale value of sales, 23 States, California and Florida, 1969-70

	*ui		20 014.00,									
	Gross wholesale value of sales ¹											
Flowers	23 S	tates		Califo	prnla			Flo	ida			
	1969	1970	19	1969		1970		1969		70		
		1,000 dollars	1,000 dollars	Percent of total	1,000 dollars	Percent of total	1,000 dollars	Percent of total	1,000 dollars	Percent of total		
Carnations	47,696	47,750	20,566	43.1	21,895	45.9	(²)	(²)	(²)	(²)		
Standard		26,925 26,651 24,598 18,725 53,967	9,962 6,403 2,948 3,387 14,512	37.2 23.5 13.4 15.9 26.9	10,590 6,601 4,124 3,111 14,113	39.3 24.8 16.8 16.6 26.2	1,888 9,977 1,977 13,129 372	7.0 36.7 9.0 61.5 0.7	1,863 8,706 2,454 .11,277 284	6.9 32.7 10.0 .60.2 0.5		

¹ Equivalent wholesale value of all sales.

Source: Flowers and Foliage Plants, Production and Sales in Selected States, U. S. Dept. Agr., SRS Stat. Bul. No. 442 and supplement.

² Unallocated to avoid disclosure of individual operations.

Number of Producers-The floral crop produced by 1 the largest numbers of growers in the two States in 1970 was carnations, with 295 growers, all in California (table 2). Pompons and standard mums were second and third in numbers of growers, with 294 and 238 in the combined shipping point areas, respectively. Roses were produced by 66 and potted chrysanthemums by 46 growers; only 45 growers in the two States produced gladioli in 1970.

Between 1966 and 1970, the number of producers in 23 States declined for all crops but roses. Conversely, the number of producers of 5 of the 6 reported flowers increased in California, and producers of chrysanthemums increased in Florida. There were declines in the number of rose and gladioli producers in Florida. These changes attest to the shift of flower production to California and the increased specialization in both areas.

Production Importance of the Two States-A relatively small number of California and Florida growers produce a large proportion of the Nation's major flowers (table 3 and appendix tables 1-3). In 1970, California, with 17 percent of the growers, produced 47 percent of the carnations reported in the 23 major flower-producing States. Florida, with 6 percent of the growers, produced 60 percent of the gladioli in the 23 States. The pattern is comparable for the other reported flowers, although less pronounced for potted chrysanthemums and roses. Growers of these flowers in California and Florida-18 percent of the total number of growers-produced approximately 27 percent of the volume reported for 23 States in 1970.

PROCEDURE

A mail survey, augmented by telephone conversations with knowledgeable industry leaders, extension workers, and others, established a universe of approximately 140 growers and wholesalers in California and Florida who shipped at least \$10,000 worth of flowers out of State, Approximately 60 percent of the California and 90 percent of the Florida respondents were growers.

From this universe, a stratified random sample of growers and wholesalers was drawn. Since the study focused on 6 types of flowers reported by the Statistical Reporting Service, USDA, care was taken to ensure that shippers of carnations, standard chrysanthenums, pompons, potted mums, gladioli, and/or roses were represented.

THE SAMPLE

Personal interviews were conducted with 50 firms that shipped flowers. Twenty-seven firms were in California and 23 in Florida.

Fifty-eight percent of the sample firms were growers. 40 percent were wholesalers, and 2.0 percent were cooperatives. Most firms contacted in Florida were growers; more than half the California respondents were wholesalers. One cooperative was included as a grower to avoid disclosure of individual operations.

The sample included 35 percent of the estimated total number of firms making shipments of the specified flowers valued at \$10,000 or more from the combined

Table 2.-Number of producers, selected floral crops, by States, 1956-70

	Γ													
†			, .	·	 ,	,		Υ	ear ¹					
	1956	1957	1958	1959	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970
Carnations													<u>'</u>	
23 States	ļ									2,183	2.055	1,988	1,861	1,749
California	157	153	180	189	169	174	211	205	188	232	236	263	285	295
Florida	(²)	(²)	(²)	6	4	(²)	(³)							
Ständard mums	ł									• •	, ,	` '	• •	٠,
23 States	l I									2,984	2,756	2,599	2,457	2,243
California	158	150	139	153	153	151	189	166	154	171	174	196	191	206
Florida	15	15	12	24	15	18	23	23	20	27	28	32	34	32
Pompons	}													
23 States										2,988	2,738	2,660	2,497	2,349
California	208	205	214	226	177	171	186	176	148	174	168	218	201	246
Florida	45	44	42	51	45	43	46	43	40	46	46	50	51	48
23 States											_			-70
California										1,545	1,538	1,540	1,455	1,543
Florida										22	29	. 33	28	32
Gladioli	,									8	10	12	13	14
23 States										581	541	492	398	366
California	76	68	61	79	50	52	50	37	34	27	24	27	20	22
Florida	72	62	57	53	45	36	29	27	25	28	28	28	26	23
23 States													4- 47	23
California	4.4									376	376	371	384	383
Florida	44 (²)	41	39	43	42	42	45	43	41	45	50	56	57	GO
	(*)	(²)	(²)	11	12	17	16	13	10	10	9	13	8	6

¹No estimates made for 1960 crop year; estimates for 23 States total and for potted mums begun 1966.

2Florida not published to avoid disclosure of individual

Source: Flowers and Foliage Plants, Production and Sales in Selected States, U. S. Dept. Agr., Stat. Bul. No. 442 and supplement.

operations.

Table 3.—Number of growers and value of production as a percentage of national total, 6 major flowers, California and Florida, 1970

		Τ	Carrorina Line	T		·
States	Carnations		Chrysanthemum	15		_
Julios	Curnations	Standard	Pontpon	Potted	Gladioli	Roses
	Percent	Percent	Percent	Percent	Percent	Percent
Value of production						
23 States	100	100	100	100	100	100
CaliforniaFlorida	46 (¹)	39 7	25 33	17 10	17 60	26 1
Total, 2 States		46	58	27	77	27
	Percent	Perceht	Percent	Percent	Percent	Percent
Number of growers						
23 States	100	100	100	100	100	100
California	17 (¹)	9 1	10 2	2	6 6	16 2
Total, 2 States		10	12	3	12	18

¹ Florida carnations not published to avoid disclosure of Individal operations.

Source Flowers and Foliage Plants, Production and Sales in Selected States, U. S. Dept. Agr., SRS, Stat. Bul. No. 442 and supplement.

two State area. Approximately 30 percent of all growers and 52 percent of wholesalers were included. Thirty-three percent of the California and 40 percent of the Florida shippers were included.

Size of Firm Classification—Firms were classified by size, based upon their total annual sales volumes of the six flowers specified for study (including in-State sales). The size categories used were small, medium, large, and very large; the sales ranges indicated by these categories were:

Small	0 - \$99,999
Medium	\$100,000 - \$499,999
Large	\$500,000 - \$999,999
Very large	\$1,000,000 or more.

Most sample firms in each area were of medium size, with total sales of \$100,000 to \$499,999 (table 4). Seventy-nine percent of grower-shippers and 61 percent of wholesalers were of small or medium size. Larger proportions of California than Florida shippers were of small or medium size.

Volumes Shipped by Firms—Physical volumes of the specified flowers shipped to out-of-State markets by sample firms in 1969 are given by area; type of firm, and size of firm in table 5 and appendix tables 4-6. The sample represents shipments of 86.9-million carnations, 13.5-million standard mums, 4.9-million pompons, 0.6-million potted mums, 8.8-million gladioli, and 16.5-million roses.

Other Aspects of Market Organization—Detailed information was collected from selected firms in California and Florida concerning aspects of their business usually associated with market organization, such as age of firm, years under present ownership, and form of business organization. Detailed data on these aspects are in appendix tables 7-10.

Table 4.—Shippers of flowers, included in the survey by size of firm and by State, 1969/70

Size	Callfornia	Florida ¹	Total
		Number of firms	
Growers			
Small	1	3	4
Medium	9	10	19
Large	1	1	2
Very large ,		5	5
Total	11	19	30
Wholesalers			
Small	3	_	3
Medium	7	<u></u>	9
Large , , , , ,	4		4
Very large .	2	2	4
Total	16	4	20
Total	27	23	50

¹One Florida cooperative included in growers.

Table 5.-Volumes and proportions of specified flowers shipped out of State by 50 California and Florida firms, 1969/70

		Chi	rysanthemi	มภาร			1	Chi	rysanthem	เมทร	J	!
Firms	Carn,	Std.	Pom.	Pot.	Glads	Roses	Carn.	Std.	Pom.	Pot.	Glads	Roses
	1,000 blooms	1,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms	Pct.	Pct.	Pet.	Pct,	Pct.	Pct.
California												
Growers	14,020	649	306	50	284	5,469	29	7	29	86	48	38
Wholesalers		8,959	746	8	303	8,799	71	93	71	14	52	62
All California	48,838	9,608	1,052	58	587	14,268	100	100	100	100	100	100
Florida												
Growers and												
co-ops		3,485	3,713	519	7,089	440		99	98	100	87	34
Wholesalers	158	37	79	(1)	1,108	849	100	1	2	(1)	13	66
All Florida	158	3,522	3,792	519	8,197	1,289	100	100	100	100	100	100
Total												
Growers and												
co-ops	14,020	4,134	4,019	569	7,373	5,909	29	31	83	99	84	38
Wholesalers	34,976	8,996	825	8	1,411	9,648	71	69	17	1	16	62
All firms	48,996	13,130	4,844	577	8,784	15,557	100	100	100	100	100	100

Less than 0,5 percent,

SUPPLY SOURCES AND ASSEMBLING PRACTICES OF FIRMS

Shippers can be divided into three categories with respect to their sources of supply: Firms that ship only flowers they themselves grow, those that receive their entire supplies from others, and those that both grow their own and receive from others supplies for out-of-State shipment (table 6).

Many firms making out-of-State shipments grow at least a portion of the flowers they ship. Such respondents represent 60 percent of sample firms in California and 83 percent in Florida.

Assembling Flowers for Shipment-Large wholesale floral companies received their entire supplies of flowers from other firms. They usually handled several other types of flowers in addition to the six specified for this study, and those in Florida often sold such related products as artificial flowers and giftware items and served as complete suppliers for retail florists. Four Florida respondents were of this type. California wholesalers, 40 percent of the respondents in that State, usually handled fresh flowers only.

Table 6.—Sources of flowers, shipped by firms in California and Florida, 1969/70

· · · · · · · · · · · · · · · · · · ·							
			Chrysan	themums			individual
Source	Carn,	Std.	Pom.	Pot.	Glads	Roses	firms
			N	umber of fire	ns	<u> </u>	
California							
Grow only	4	2	3	1	1	3	8
only Both grow and receive	11 5	10 4	11 4	2	8	10	11
l otal	20	16	. 18	3	2 11	3 16	8 27
Florida							
Receive from others		5	11	1	8	1	16
only ¹ Both grow and receive	3	4	5 1	3	4 2	3	4
Total	3	9	17	4	14	4	23
Cooperative included				· · · · · · · · · · · · · · · · · · ·		7	23

Cooperative included.

These large wholesale firms usually purchased quantities of each type of flower handled, and also frequently received consignments from growers of important local floral crops. Consignments of standard mums, pompons, and gladioli were received by Florida wholesalers.

Shippers included in the sample who both grew flowers and purchased these crops for resale operated differently. They stressed the growing function, and normally did not handle as many types of flowers as did the wholesalers, although they were often as large in terms of volumes sold. However, the organization of such firms varied considerably in the two States.

California respondents who both grew floral crops and acquired them from others usually began by performing the growing function only, developed a marketing organization and expertise, and entered the wholesaling function, purchasing and marketing crops produced by neighboring growers. They purchased only a limited number of crops, usually just the types of flowers they grew themselves. Eight California shippers were of this general type.

Two of the three Florida firms that both grew and acquired flowers from others for resale were wholesaling gladioli to permit continuous service to their customers throughout the year. These growers did not attempt production in Florida during the period July through September. However, each had developed a marketing organization and clientele of customers who demanded a continuous supply. To provide this, these growers obtained supplies of gladioli from other growers in northern Florida, North Carolina, and Illinois during the off-season. One respondent purchased the gladioli from Northern growers but did not take physical possession, preferring to have the suppliers ship directly to his customers. Another respondent moved his harvesting and packing laborers to the Northern States and performed the actual packing and shipping function at the suppliers' locations.

The remaining Florida respondent who both grew and received flowers from others grew gladioli only and purchased pompons from neighboring growers to provide more complete utilization of his packing and marketing facilities.

Portion of Shipments Made by Original Growers and Others—Over half the volumes of 5 of the 6 flower types from California were shipped by firms other than the original growers (table 7). The original growers shipped most of the potted mums. Their percentages vary from 55 for roses to 89 percent of the standard mums.

Just the opposite situation exists for the important floral crops of Florida. More than 80 percent of the sample volumes of standard and pompon chrysanthemums and gladioli from that State were shipped by the original growers. Florida wholesalers did little shipping to out-of-State markets, other than small quantities to retail florist in the Caribbean Islands. The larger percentages indicated for carnations and roses, which are not grown in important quantities in Florida, reflect shipments to the Carribean by these wholesalers.

Geographic Areas of Supply—Only two California shippers purchased supplies from other States (table 8). They purchased gladioli from Florida, probably during the winter season when California production is lowest.

Standard and pompon chrysanthemums and gladioli are important floral crops in Florida, but are produced on a seasonal basis. Six of the sample shippers from Florida purchase pompons and gladioli from Florida suppliers in season, and four purchase Florida standard mums.

Only seven respondents expected future changes in relative importance of their geographic areas of supply. Two California and two Florida shippers expect increased imports of carnations, standard and pompon chrysanthemums, and gladioli from South America and Guatemala.

Table 7.—Volumes and portion of shipments made by original growers, 26 California and Florida shippers, 1969/70

1	Carn.	Std.	Pom.				l,					
7	1 000		,,,,,	Pot.	Glads	Roses	Carn.	Std.	Pom.	Pot.	Glads	Roses
"	1,000 looms	1,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms			ercent of	volume		· · · · · · · · ·
California												
Original grower 10	6,804	1,044	299	50	159	6,482	34	11	28	86	27	45
Others 32	2,034	8,564	753	8	428	7,787	66	89	72	14	73	55
Total 4	8,838	9,608	1,052	58	587	14,268	100	100	100	100	100	100
Florida						ļ						
Original grower		3,485	3,149	408	6,641	440	(¹)	99	83	79	81	34
Other	158	37	642	111	1,556	849	100	1	17	21	19	66
Total	158	3,522	3,791	519	8,197	1,289	100	100	100	100	100	100

Less than 0.5 percent,

Table 8.-Geographic areas of supply for 26 California and Florida flower shippers, 1969/70

Geographic areas of supply	Carn,	Sta.	Pom,	Pot.	Glads	Roses	Individua firms
			N	umber of firn	18		
California shippers that							
purchase from:	16	14	15	2	10	13	19
Local counties and							
California	16	14	15	2	10	13	19
Florida					2		2
Florida shippers that							
purchase from ¹	3	4	6	3	6	3	7
Local counties and		,		_	-	Ü	,
Florida North Central and		4	6	3	6	1	7
Northeastern States					3	1	3
North & South Carolina			1		3 3	•	3
West Coast	3,	3	3			3	3
Colorado	2					ĭ	2
South America	3	2	1		1	•	1
Guatemala		1	1		-		.L 1

¹ Includes cooperative.

Types of Supplying Firms-Eleven California shippers who purchase flowers receive them from growers only; seven purchase from both growers and wholesalers. Five Florida firms (including the cooperative) purchase from growers only, one purchases from both growers and wholesalers, and one wholesaler-respondent could not accurately classify his suppliers.

Only four firms indicated changes in the relative importance of the types of firms serving as their supply sources since 1964, and eight expected changes by 1974 (table 9). Two respondents expected to grow more flower supplies themselves by 1974, but three others intended to reduce their growing activities and purchase larger quantities. Two respondents expected to import more flowers in the future.

Numbers of Suppliers-California shippers had more individual suppliers than did firms in Florida, with five firms receiving carnations and standard mums from

11-20 suppliers and three firms obtaining standard mums from more than 20 suppliers. The maximum number of suppliers utilized by a firm in California for a single flower type was 50 suppliers marketing standard mums; the average number of suppliers by flower type in that State ranged from two for potted mums to 16 for standard mums (table 10). None of the Florida firms exceeded eight suppliers for a single flower type.

Most Florida firms and nearly a third of the California firms did not expect any changes in number of suppliers in the hear future (table 11). Twelve respondents reported changes since 1964, with six claiming increases in number of suppliers and six stating that they now purchase from fewer suppliers.

Determination of Purchase Price-The respondents who purchased flowers from others were asked how they determine the purchase price they should pay (table 12). About three-fourths of the respondents replied "supply and demand" or "the market determines the price." One

Table 9.—Types of suppliers for 26 California and Florida

Types of suppliers used	Carnations	C	hrysanthemun	15			Individual
		Standard	Pompon	Potted	Gladioli	Roses	firms
			N	umber of firm	1		1
Cafifornia							
Growers only	10 1	9	10	2	7	9	11
Growers and wholesalers	5	5	 5		2 1	4	1
Total	16	14	15	2	10		7
florida			:	-	10	13	19
Growers only 1	1	2					
Growers and wholesafers	1	1	7	2	5	2	. 5
Unknown	1	ī	1	_			i
1		-	. 1	1 .	1	1	ī
Total	3	4	6	3	. 6	3	

es a cooperative.

Table 10.—Number of suppliers used by California and Florida shippers, 1969/70

State and type	[Nu	unber answe	ring:		Total	10:-	Mean	Max
of flower	1	2-3	4-10	11-20	20	firms	Min.	Mean	IVIAX
was a defined to the last last last layer on special like 1999.	<u> </u>	Nu	nber of fire	ns i			<u>-i</u>	.l <u>.</u>	ļ <u></u>
California]								
Carnations	1	2	9	5		16	3	9	16
Std. mums	İ	1	5	5	3	14	3	16	50
Pompons		3	9	2	1	15	2	9	35
Potted mum5	2	1				3	1	2	3
Gladioli	1	7		2		10	1	4	16
Rases		6	7			13	2	4	10
Florida									
Carnations	1		2			3	5	6	8
Std. mums	1		2			3	1	5	8
Pompons		3	2			5	2	3	5
Potted mums	2					2	1	1	1
Gladioli	1	1	3			5	1	3	5
Roses		ī	1			2	2	3	5

Table 11.—Changes in number of suppliers since 1964 and expected by 1974. California and Florida shippers. 1969/70

by 1974	, California a	ıd Florida shi	ppers, 1969/70		<u> </u>	
A man most observed a constant		Since 196	4	Ex	pected by 19	74
Area and change expected	Calif,	Fla.	All firms	Calif.	Fla.	All firms
		-1	Number of	responses		
Increases						
Increased business and therefore more suppliers	4		4	7		7
More people growing gladioti now; fewer growing pompons		1	1			
More suppliers; no reason						
given,		1	1	1		1
Subtotal	4	2	6	8		8
Decreases						
Smaller growers ceasing production	2		2			
Climbing land values & production costs have reduced number of local growers	1		1	4		4
Labor shortages have	_		•	•		•
reduced number of local growers					1	1
Respondent has increased growing activities; needs fewer suppliers		1 .	1			
Fewer supliers; no reason given	1	1	2	2		2
Subtotal	4	2	6	6	1	7
No change expected	11	3	14	6	5	11
Total	19	7	26	19	7	26

Table 12.—Determination of market price paid by shippers, 26 California and Florida shippers, 1969/70

Response	California	Florida	Total
	Nu	nber of fir	ms
"Supply and demand" or "market" determines price,	14	3	17
market determines price,	1.4	J	17
Grower sets price; shipper			
accepts if reasonable	5	1	6
Each year agree with			
supplier on price for			
following season based			
on experience		1	1
"Market really determines,			
but customer loyalty and			
habit are factors"		1	1
Total	19	61	251

Cooperative omitted,

respondent explained by saying, "You base your price on what you heard yesterday."

Terms of Purchase-The most common practice in California was for purchasers to receive flowers from growers at local fields (table 13). This was done by one or more purchasers of each of the six flower types, and the number of purchasers interviewed who followed the practice ranged from one for potted mums to nine for pompons and standard mums. Three California respondents received their total supplies of carnations as deliveries by growers; this practice was also followed to a limited degree for pompons, potted mums, and gladioli. Certain California shippers received deliveries of flowers from growers and also received portions in local fields. More California respondents made all their purchases of each flower type except potted mums at local flower markets. Each Florida respondent who purchased carnations, potted mums, and roses received these crops f.o.b. a distant city (usually out-of-State), and was responsible for payment of all transportation charges.

Pricing Units—Price per bloom was the pricing unit mentioned most often for carnations and roses, although just over one-third of the California respondents specified "bunches of 25" for these flowers (table 14).

Most respondents indicated standard mums are priced by the bloom, pompons by the bunch, and gladioli by the dozen. Six-inch pots are the pricing units for potted chrysanthemums. A "bunch" of pompons usually consists of not fewer than five stems weighing a minimum of 12 ounces, with extra stems added to correct for deficient weight.

Discounts—Approximately 75 percent of the Florida and California respondents reported that they did not receive any discounts on flowers purchased for resale

Table 14.—Pricing units used by California and Florida flower shippers, 1969/70

Terms	California	Florida	Total firms
	Nu	mber of fire	ns
Carnations Bloom	10 6	1 1	1 <u>1</u> 7
No indication	16	1 3	1 19
Standard mums Bloom	13	2	15
Bunch of 50	1		1
	14	1 3	1 17
Pompons Bunch	15	4	19
Box of 25 to 30	15	1 5	1 20
Potted mums 6-inch pots	2	2	4
Gladioli Dozen spikes			
Hamper	10	4 1	14 1
Roses	10	5	15
Bloom	8 5	1 1	9 6
No indication	••	1	1
	13	3	16

(table 15). One Florida and two California respondents stated that they received discounts "occasionally." Two firms in California appeared to receive discounts on purchases of carnations as a regular practice, and a Florida respondent found quantity discounts possible during periods of plentiful supply but difficult at other times.

Table 13.—Terms of purchase and point of delivery, 26 California and Florida flower shippers, 1969/70

Point of delivery	California						Florida					
	Carn.	Std.	Pom.	Pot.	Glads	Roses	Carn.	Std.	Pom.	Pot.	Glads	Roses
					<u> </u>	Number	of firms			LL		·
o,b. local field	7	9	9	1	4	7			1		,	
Delivered by growers	3		1	1	1	•			1		1	
ocal flower market Portion delivered; portion	3	4	4	-	4	3						
f.o.b. field	2	1	1		1	3						
o,b, distant suppliers							3	1	1	2	4	3
and consignors ,								2	2			
Total	16	14	15	2	10	13	3	3	5	2	5	3

Table 15.—Discounts obtained on flowers for resale by California and Florida flower shippers, 1969/70

Comment	California	Florida	Total				
	Number of firms						
None	15	4	19				
Occasionally	2	1	3				
Often on carnations	2		2				
Depends upon market		1	1				
Total	19	6	25				

OUT-OF-STATE MARKETING AND SHIPPING PRACTICES

Out-of-State shipments account for more than 90 percent of total sales of carnations and standard mums in California, and gladioli and pompons in Florida (table 16). California shippers send more than 75 percent of their roses and pompons to other States.

California and Florida growers of other flowers not included in this report also ship relatively large portions of their sales out of State, with the exception of potted mums in California. There was little difference in the proportion of out-of-State shipments by size of firm for either growers or wholesalers (appendix tables 11 and 12)

Types of Sales and Customers of Shippers—Shipments may be in response to actual sales or on consignment. Approximately 70 percent of the firms shipped only when an actual sale had been made (no consignments), and 28 percent made consignment shipments as well (table 17).

About half the firms shipped to wholesalers only, with 25 percent making only outright sales to the wholesalers, and approximately the same proportion making both sales and consignment shipments. Thirty-four percent of the firms shipped to both wholesale and retail florists, with 29 percent making sales only and 5 percent making consignments to wholesalers and sales to both wholesalers and retailers. Seven percent of the respondents made only direct sales to retail florists.

Nine percent of the firms (included under "other") made sales to other types of customers in addition to wholesale and/or retail florists. One California grower shipped to a grocery chain and wholesale florists; and a Florida wholesaler sold to wholesalers, retail florists, and European importers.

Consignments were most important in Florida, where 57 percent of the sample firms made consignments in addition to direct sales. Only 11 percent of the California respondents made consignments in out-of-State markets. Many California respondents, however, probably made consignments to wholesale markets within their own States.

A much larger proportion of growers than wholesalers made consignments, with 45 percent of the growers using this marketing method versus 4 percent of all wholesalers. The smaller growers appear to have used the consignment method more often than did larger growers.

In California, more than half the volumes of each of the six flower types were shipped as sales to wholesalers, with percentages ranging from 52 for gladioli to 86 for potted chrysanthemums (table 18). Sales to retail florists were second in importance in California, with percentages ranging from 5 for gladioli to 30 percent of the roses shipped by sample firms.

Table 16.—Proportion of total volume shipped out-of-State by California and Florida shippers, 1969/70

			Chrysanthemum	s	Gladioli	Roses	
Area and Type of Firm	Carnations	Standard	Pompons Potted		Giadion		
		,	Percent	of Volume			
California							
Growers	96	48	78	20	68	63	
Wholesalers	94	97	90	28	60	89	
Ali California	95	. 91	86	21	63	77	
Florida							
Growers & co-ops		87	93	80	93	25	
Wholesalers	22	15	48	20	97	19	
All Florida	22	81	91	65	94	24	

Table 17.—Sales and consignments of flowers to wholesalers and retailers by shippers in California and Florida, 1969/70

		Consignme	nts & sales to:		Sales or	nly to:		Total
Area and type of firm	No indi- cation	whole- salers only	Wholesalors and retailers	Wholesaters only	Wholesalers and retailers	Retailers only	Other ¹	
				Percent c	of Volume			
California								
Growers	9	9	9	27	36		9	100
Wholesalers		6		31	56	6	-	100
Alf California	4	7	4	30	48	4	4	100
Florida								
Growers & co-ops		59	10	21			10	100
Wholesalers						75	25	100
All Florida		48	9	17		13	13	100
Ì								200
Total								
Growers	3	40	10	23	13		10	100
Whotesaler	• -	5		25	45	20	5	100
All firms	2	26	6	24	26	8	8	100

¹ Firms using grocery chains, importers, or brokers as outlets in addition to sales (no consignments) to wholesalers and/or retail florists.

Table 18.—Sales of flowers to principal receivers, by type of flower and shipper, California and Florida, 1969/70

·				,- 0		
State and	Carnations		Chrysanthemum	5		<u> </u>
type of customer		Standard	Pompon	Potted	Gladioli	Roses
		· · · · · · · · · · · · · · · · · · ·	Percent	of firms	<u> </u>	_L
California						
Whotesalers Sale Consignment Retail florists Grocery chains Not specified	80 5	74 8	60 5	86	52	70
	15	18	12 (¹) 23	14	5 1 42	30
Total	100	100	100	100	100	100
Florida						
Wholesalers Sale Consignment Refail florists	100	67 16	54 37	25	76 5	34
Grocery chains Brokers European importers	100	16	9 (¹)	20 20 35	16 (¹)	66
Total	100	100	100	100	3 100	100

Less than 0.5 percent.

Florida's most important floral crops (in terms of value of sales) of the six flowers studied (standard and pompon chrysanthemums and gladioli) are shipped principally as direct sales to wholesalers, with percentages ranging from 54 for pompons to 76 percent of the gladioli. Direct sales to retail florists were second in importance for gladioli (16 percent of shipments), while consignments to wholesalers were second in importance for pompons (37 percent). Consignment to wholesalers and sale to retailers appear equal in importance for Florida standard mums, with 16 percent of shipments moving to each. Shipments of potted mums from Florida appear to have been almost equally

divided among sales to wholesale and retail florists, grocery chains, and "brokers,"

Number of Customers per Shipper—California firms make out-of-State shipments to fewer individual customers than do the Florida respondents. None of the California firms shipped to more than 500 individual customers, while 17 percent of the Florida respondents exceeded this number (table 19).

Smaller growers shipped to fewer customers in out-of-State markets than did the smaller wholesalers. This difference diminishes, however, as the size of firm increases, with the larger growers resembling the large wholesalers in numbers of customers.

State and		Nι	imber of c	ustomers	per shippe	r ^L		Number of customers per shipper				
type of firm	Not given	10 or less	11- 50	51- 100	101- 500	Over 500	Total Percent	Min.	Mean	Ma×.		
		Percent								Number		
California								_		25.0		
Growers	9	27	45	9	9		100	3	57	350		
Wholesalers		- 6	25	31	38		100	9	90	140		
All California	4	15	33	22	26	- •	100	3	77	350		
Fjorlda									2	2 .		
Growers & co-ops		10	37	16	21	16	100	2	² 127	² 661		
Wholesalers		25	50			25	100	10	528	2,075		
All Florida		13	39	13	17	17	100	2	² 203	2,075		
Total												
Growers	3	17	40	13	17	10	100			• •		
Wholesalers		10	30	25	30	5	100	• •	• •	• • •		
All firms	2	14	36	18	22	8	100	••		• -		

 $^{^{1}\,\}mathrm{Includes}$ consignees. $^{2}\,\mathrm{Two}$ firms reporting only "more than 1,000 customers" not included.

Costs and Evaluation of Consignments—Consignment shipments were made in 1969 by 16 firms. Thirteen of these firms were in Florida and three in California.

The 16 respondents who had made consignment shipments in 1969 were asked what percentage of gross receipts was usually deducted as a commission by the consignees (table 20). Nine respondents who made consignments indicated that the customary deduction was 25 percent, four found the deduction to vary between 20 and 25 percent, and one replied 20 percent. One respondent indicated that he could occasionally make consignments to certain wholesalers for deductions of only 10-15 percent, but that the most common percentage was 25.

Just over half the Florida respondents and one of the three California shippers gave negative appraisals of consignment marketing and stated that they made shipments of this type only when they could not make

Table 20.—Percentage of gross receipts deducted by consignees, flower sales of California and Florida shippers, 1969/70

Shippers, 1000770										
Percentage indicated i	Callfornia	Florida	Total							
	Nı	ımber of firn	ns							
25 percent	1	8	9							
20-25 percent	l i	3	4							
20 percent		1	1							
Occasionally 10-15, usually 25 percent		1	1							
No indication] 1		1							
Total	з	13	16							

In addition to freight charge from shipper to consignee.

direct sales (table 21). These respondents believed that consignments were too uncertain and that it was not desirable to pay for transportation of shipments to distant wholesale markets when there was no guarantee that purchasers would be found.

A contrasting opinion was given by two medium-sized Florida growers who regarded consignment marketing very favorably and considered consignments an important part of their marketing programs. Each of these respondents stated that he concentrated heavily on shipping only a high-quality product and that all his shipments were made using a brand name. These shippers believed that purchasers in the large wholesale markets had begun to associate their brand names with a certain standard of quality and that this brand image allowed them to make consignment sales even in glut markets when lesser known merchandise was being dumped.

Table 21.—Evaluation of consignment marketing, California and Florida shippers, 1969/70

Evaluation	Cali- fornia	Flor- ida	Total
	Nun	iber of i	firms
Does not like consignment; uses only when cannot make direct sale, Consignment to selected firms profit-	1	7	. 8
able; but prefer sales Consignment of quality product im-	1	2	3
portant part of marketing program .		2	2
No indication	1	2	3
Total 1969 consignors	3	13	16

Does not total 100.0 percent because of rounding,

Expected Trends in Types of Customers To Be Served by Shippers—Twenty-six percent of respondents expected increased shipping directly from the growing areas to various types of retail organizations and the by-passing of wholesale florists at the forward or retail end of the marketing chain (table 22).

Table 22.-Expected trends in types of customers, shippers in California and Florida, 1969/70

Comment	Cali- fornia	Flor- ída	Total
_	Nun	iber of f	irms
Expect more sales by shippers to: Retail florists Grocery chains and super markets Retail florists & grocery chains European imports, grocery chains, and retailers	3 4	3 2 1	6 4 2
Grocery chains do not offer market potential (otherwise no change)		3	3
No changes expected	20	14	34
Total	27	23	50

Seasonal Marketing Patterns

Fforida Standard mums: Growers²

Pompons:

Gladioti:

Wholesalers

Growers²

Wholesalers

Growers²

Wholesalers

Total

Total

The California respondents indicated marketing activity at varying levels throughout the year, while many of the Florida shippers do no marketing from July through October (table 23).

Several California respondents stated their peak marketing period for certain floral crops to be the spring months of April, May, and June, while others in California specified the entire April-October period as uniformly important. Others stated that their level of marketing remained stable over the entire year. In California, most carnation shippers gave the spring months as the peak period, while more shippers of standard mums, pompons, and gladioli specified the longer April-October period.

Most Florida growers defined their marketing season as November-June, with no marketings during the remainder of the year. Thirty-eight percent of Florida respondents classified as growers who shipped pompons and 70 percent of those shipping gladioli specified the first half of the November-February season as the peak market period. The latter half of the season (February-May) was specified by all Florida standard Table 23.—Seasonal marketing patterns for flowers, California and shippers, 1969/70

100

67

38

29

20

14

15

12

38

25

35

70

25

57

100.0

100.0

100.0

100.0

100,0

100,0

100.0

100.0

100.0

100.0

Shipment	No indi- cation		Market all yea peak in ¹	r,		łovJune, k in		
	Cation	No peak	Apr June	Apr Oct.	Nov Feb.	Feb May	Other	Total
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
California								
Carnations:								
Growers		40	40	••				
Wholesalers	7	13	53	20				
Total	5	20	50	27				100.0
	Ū	2.0	30	25				100.0
Standard mums:								
Growers		67						
Wholesalers	8	15	15	33				100.0
Total	6	25	13	62				100,0
	•	22	13	56				100.0
Pompons:								
Growers	20	20						
Wholesalers	8	15	15	60				100.0
Total	11	17	11	62				100.0
			11	61				100,0
Gladioli:								
Growers	50		ទៃ០					
Wholesalers	12	22	22					100.0
Total	18	18		44				100,0
		70	27	36				100,0
Roses:								
Growers		75						
Wholesalers	8	17	40	25				100.0
Total	6	31	42	33				100.0
	u	21	31	31				100.0

6

33

11

25

67

50

12

10

25

25

25

¹ In addition to the December demand period. ² Includes Co-ops.

mum growers and by 38 percent of pompon and 20 percent of gladioli growers.

The Federal-State Market News Service has compiled statistics concerning the seasonality of Florida chrysanthemums and gladioli shipments. The principal season for each flower extends from late October to late June, with peak production usually during the latter half of the season (tables 24 and 25).

Geographic Market Areas-The North Central region

was mentioned most often by California shippers of carnations, standard mums and pompons, and the Northeast and West South Central regions were second and third, respectively, in frequency of reference by these respondents (table 26). California gladioli shippers mentioned the West South Central States most often, followed by the North Central and Mountain areas. Rose shippers in California specified the North Central, West South Central, and Southern areas (in that order).

Table 24.—Chrysanthemums (Mostly pompons, some standards): Florida interstate shipments, by month, 1959/60 through 1968/69 crop years

Crop year	October	November	December	January	February	March	April	May	June	Total
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1959-69	1	3	14	14	17	15	18	13	5	100
1960-61	1	9	10	14	15	17	17	14	3	100
1961-62	1	8	12	14	13	16	17	14	5	100
1962-63	1	7	11	11	14	19	18	14	5	100
1963-64	1	7	12	12	13	19	16	15	5	100
1964-65	1 1	7	12	15	15	13	15	16	6	100
1965-66	1	9	13	13	15	13	18	14	4	100
1966-67	l ī	9	13	14	14	17	14	15	3	100
1967-68	l î	9	13	15	13	14	15	15	5	100
1968-69	l î	8	13	14	15	18	13	14	4	100

Source: Marketing Florida Ornamental Crops, Summary 1969 Season, Federal-State Market News Service, Orlando, Fla., Sept. 1969.

Table 25.—Gladioli: Florida interstate shipments, by month, 1959/60 through 1968/69 crop years

					w/ www / -					
Crop year	October	November	December	January	February	March	April	May	June	Total
··········	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent
1959-60	3	6	12	13	14	16	17	16	3	100
1960-61	3	10	11	13	14	17	16	14	2	100
1961-62	4	9	13	13	14	13	15	15	4	100
1962-63	3	8	9	12	15	17	17	15	4	100
1963-64	3	9	11	13	14	18	14	14	4	100
1964-65	3	á	11	14	14	15	15	15	4	100
	4	10	12	13	11	14	15	18	3	100
1965-66		9	12	14	12	15	15	15	5	100
1966-67	3	•			13	13	14	16	5	100
1967-68	4	10	12	13		14	14	17	5	100
1968-69	4	8	12	13	13	14	14	11		

Source: Marketing Florida Ornamental Crops, Summary 1969 Season, Federal-State Market News Service, Orlando, Fla., Sept. 1969,

Table 26.—Out-of-State market areas for California and Florida flowers shippers, 1969/70

			Unite	d States			ļ., "I	Canada		Carib-	Number firms
Shipment	North- east	South	North Central	W. South Central	Moun- tain	Pacific	Hawall, Alaska	British Columbia	Europe	bean	responding
				1 	Percent	of respon	ses ¹				Number
alifornia shippers	55	45	80	55	25	15	10				20
Carnations Standard mums	60	45 47	80	53	27	7	13				15
Pompons	1 11	44	75	50	25	19	12				16
Gladioll	25	12	50	62	50	12	25				8
Roses	40	53	73	60	27	7	13				15
lorida shippers	1				•			22	44		9
Standard mums	56	56	44	11	_	22		24	29		17
Pompons.,	59	41	65	12	6	18		36	21	21	14
Gladioli	50	50	50	21	7	29		30	2.1		

¹ Does not total to 100 because most firms shipped to several market areas.

Foreign market areas were not mentioned by California respondents, but Hawaii and Alaska were specified as markets for each of the five flower types.

The Northeast, South, and North Central regions (approximately the eastern half of the Nation) are indicated as the important Florida out-of-State market areas, and were mentioned by similar proportions of the Florida respondents for each of the three flowers listed. Canada, British Columbia, the Caribbean area, and Europe were foreign market areas mentioned by Florida shippers.

Use of Brand Names, Product Identification—Many respondents mark at least a portion of the boxes and hampers they ship with a brand name or identification of some sort. The purpose is to differentiate these products from those of other shippers and to create a reputation for quality of product. Sometimes, a formal brand name is coined for use, but more often the shippers simply use their own name or firm name. Fifty-six percent of the shippers interviewed identified in this manner at least a portion of their shipments of the six specified flowers (table 27).

More than half (57 percent) of the Florida shippers marked at least a portion of the flowers they shipped, while just under half (44 percent) of the California shippers did so.

A greater proportion of California wholesalers (56 percent) than California growers (27 percent) used product identification, Approximately 60 percent of both growers and wholesalers interviewed in Florida followed this practice.

Shippers gave the physical volumes of flowers they marketed using brand names (table 28). Seventy-three percent of the roses are sold under brand names. Just over half of the volumes of pompons and gladioli from the two States were marketed using identifying brands, and only about 20 percent of the quantities of standard and potted chrysanthemums were shipped this way.

Trend in Private Label Importance—Sixty-one percent of the respondents indicated no knowledge of change in use of trademarks. Thirty-seven percent of those interviewed believed that the importance of trademarks is increasing, with more firms labeling shipments and deriving a positive benefit from doing so than in the past years (table 29).

Promotional Methods Used—Promotional methods used by firms include direct mail; advertisements in trade publications; advertisements in newspapers and magazines; donations of flowers to design schools, conventions, etc.; miscellaneous small favors, such as match books and pencils; signs and posters; and radio and television advertisements (table 30).

Table 27.—Use of brand names by shippers of flowers, California and Florida, 1969/70

	1	wers & co		<u> </u>					T		
i		Weis & Co	-ops		Whole	salers bran	ds used	-		All firms	
· · · · · · · · · · · · · · · · · · ·	Brands	None	Total	Growers	Whole- saler	Both	None	Total	Brands	None	Total
	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	Percent	l Percent
Carnations									- 0.00	2 01 66114	1 670,6132
California Florida	40	60	100	13	13		73	100	30	70	100
Total	40	60	100	33 17	11		67 72	100	33	67	100
Standard mums							7.5	100	30	70	100
California	ı	100	100	_							
Florida	60	40	100 100	8 25			92	100	6	94	100
Total	37	63	100	12	25 6		50	100	56	44	100
Í		*-	100	12	0		82	100	24	76	100
Pompons											
California		100	100	8	8		84	1			
Florida	54	46	100	25	25		50	100	11	89	100
Total	39	61	100	12	12		76	100	53	47	100
Potted mums							70	100	31	69	100
California		100	_								
Florida	50	100	100	50			50	100	33	67	100
Total	33	50 67	100	50			50	100	50	50	100
	33	67	100	50			50	100	43	50 57	100
Gladioli									45	57	100
California		100	100	20							
Florida	60	40	100	22	11		67	100	27	73	100
Total	50	50	100	25 23	25		50	100	57	43	100
· 1			100	23	15		62	100	41	59	ioo
Roses											400
California	50	50	100	33	17						
Florida,		100	100	33	17	8	42	100	56	44	100
Total	40	60	100	33	13	-	67	100	25	75	100
All flowers					13	7	47	100	50	50	100
California Florida	27	73	100	31	19	6	44	***			
Total	56 30	44	100	20	40	v	40	100 100	44	56	100
	39	61	100	29	24	5	42	100	57 50	43 50	100 100

Table 28.-Use of brand names by shippers of flowers in California and Florida, by type of flower, 1969/70

Ĺ	Shipp	ed by grav	vers ¹	5	hipped by	wholesale	rs	То	tal shipme	nts
	Brands	None	Total	Growers	Whole- saler	None	Total	Brands	None	Total
					Percent of	f responses				
Carnations										
California	61	39	100	1	32	67	100	41	59	100
Florida				6		94	100	6	94	1.00
Total	61	39	100	(²)	32	68	100	41	59	100
Standard mums										
California		100	100	1		99	100	1	99	100
Florida	76	24	100	29		71	100	75	25	100
Total	64	36	100	1		99	100	21	79	100
Pompons										
California		100	100	4	37	59	100	29	71	100
Florida	60	40	100	3		97	100	58	42	100
Total	55	45	100	4	33	63	100	52	48	100
Potted mums										
California		100	100	46		54	100	7	93	100
Florida	21	79	100	20		80	100	21	79	100
Total	19	81	100	45		55	100	20	80	100
Gladioli										
California		100	100	3	84	13	100	45	55	100
Florida	65	35	100		5	95	100	57	43	100
Total	63	37	100	1	22	77	100	56	44	100
Roses										
California	67	33	100	9	79	12	100	80	20	100
Florida	".	100	100	3		97	100	2	98	100
Total	62	38	100	8	72	20	100	73	27	100

¹ Includes cooperative, ² Less than 0.5 percent,

Table 29.—Flower shippers' opinions concerning the trend in importance of labeling California and Florida, 1969/70

	Gaitti	Office died (forther) to any		
State and type of firm	No change	Increasing	Decreasing	Total firms
		Percent	of firms	
California Growers Wholesalers All California	55 63 59	45 37 41		100 100 100
Florida Growers & co-ops Wholesalers	68 75 70	27 25 26	5	100 100 100

Table 30.—Promotional methods used by flower shippers in California and Florida, 1969/70

				19	1969							Evnorted 1074	2701.5			
State and type of firm	Mail	Trade pub.	Paper & Mag. ads	Favors	Flower dona- tion	Signs & posters	Radio & T.V.	Not avail- able	Mail	Trade pub.	Paper & mag.	Favors	Flower dona-	Signs & posters	Radio & T.V.	Not avail-
	Pet.	Pct.	Pct.	Pct.	Pet	Pet.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pet.	Pct,	Pct.	Pct.
California Growers Wholesalers Total (Calif.)	50 50 43	50 58 73	000	000	0 8 7	000	000	50 25 29	0 9 8 8 8	33 50 50	000	000	0 00 0	000	000	67 31
Florida Growers & co-ops Wholesalers Total (Fla.)	50 CO	000	63 50	13 0 10	13 50 20	13 0 10	000	000	50 67 55	000	63 0 45	£ 0 0	E E E	. E. O o	000	3 000
Growers	40 50 46	33	50 20	10 4	10 14 13	10 0 4	000	10 21 17	36 50 44	9 44 30	45 0 19	6 0 4	9 11	004	0 000	255

Most firms used direct mail advertising, followed by ads in trade publications, ads in papers and magazines, and donations of flowers to design schools and conventions. Small favors or gifts, signs and posters, and radio and television advertisements were of equal and lesser importance.

Customer Services Offered by Shippers—The services offered customers by shippers, other than standard packing for bulk shipment and customer credit, varied (table 31). Half of all sample firms provided such

consists of the packing of special combinations of color or types of chrysanthemums in boxes or of gladioli in hampers for shipment to customers. Small retailers request this service because they often need several colors or types of a given flower, but cannot utilize complete boxes of each of the colors needed within the shelf-life of these perishable products. Customers who are wholesale florists order such special combinations of flowers to allow reshipment to their smaller retail customers without repacking.

Table 31.—Customer services offered by flowers shippers, California and Florida, 1969/70

State and type of firm	Custom shipping only	Consumer unit pack- aging only	Custom ship- ping and lo- cal delivery	Consumer units, custom shipping	No services	Total
California		***************************************	Perc	ent		
		27			73	100
Growers		25			75	100
Wholesalers Total California		26			74	100
Florida						
	7.4			5	21	100
Growers & co-ops	74		75	·		100
Wholesalers	25		13	4	18	100
Total Florida	65		13		_ _	
Total				3	40	100
Growers	47	10	1.5	J	60	100
Wholesalers	5	20	15	2	. 48	100
All firms	30	14	6		•0	

services. The proportions varied greatly between the two States, however, with 82 percent of the Florida firms and only 26 percent of the California respondents offering one or more of these services. Slightly over half of all growers and under half of the wholesalers interviewed offered the services.

The only customer service offered by California respondents—done by 26 percent of the firms—was consumer unit packaging.

Custom packing of special shipping units, tabulated under "custom shipping," was the most important service offered by Florida respondents, being provided by 82 percent of the shippers (table 32). This service

Table 32.—Expected trends in customer services, California and Florida shippers, 1969/70

Expected trend	Calif.	Fla.	Total
	N	umber firi	ns
Increasing:			
More consumer unit packaging More delivery service to	5		5
out-of-town customers .		1	1
Type Increase not specified	5	2	7
Decreasing , , ,		. 3	3
No change expected	17	17	34
Total	27	23	50

Determination of Selling Price—Two general philosophies were followed by respondents in determining pricing policy (table 33). The first of these was that "supply and demand" or "the market" determines the price and "I will simply get as much as I can." This philosophy was held by 67 percent of all growers interviewed and 13 percent of the wholesalers.

In contrast, 87 percent of the wholesalers and one-third of the growers determine the cost of crops purchased or produced, decide upon a desired margin, and attempt to obtain this margin in the market. The success of these efforts are, of course, dependent upon market conditions, but an effort is made to determine and obtain a definite margin.

The margins sought were described by a small number of respondents. These ranged from 18 to 40 percent, with one respondent indicating 40 percent as his desired margin and 33 1/3 percent as the minimum required for profitable operation. Only 24 percent of the Florida shippers allowed quantity discounts on a portion of their sales. Only 12 percent of the California respondents allowed discounts for prompt payment. There does not appear to be an accepted discount policy within the industry.

Terms of Sale: Point of Delivery—Various agreements were made between respondent shippers and their customers concerning point of delivery for flower sales (table 34). The most common sale was f.o.b. the shipper's business location, in which the seller agrees to place the shipment on board the initial carrier with all

Table 33.—Determination of selling price by California and Florida flower shippers, 1969/70

Comment	Cali	fornia	Fic	orida	T	otal
Camment	Growers	Wholesalers	Growers ¹	Wholesater	Growers	Wholesalers
	Percent	Percent	Percent	Percent	Percent	Percent
"Supply and demand," or "market" determines price	82	6	60	25	67	10
Cost of merchandise plus a margin; ilmited by market conditions: 18-22 percent 25 percent Minimum of 33 1/3 percent,		6		25		• 5 5
tries for 40 · · · · · · · · · · · · · · · · · ·	18	75	10 10	25 25	7 14	5 65
Negotiates price at beginning of season, based upon expected costs plus markup; may adjust		,5		20	1.4	65
price later if market declines Rather hold and dump than cut			10		7	
price later		13	10		6	10
Fotal	100	100	100	100	100	100

¹ Cooperative included

Table 34.—Terms of sale: Point of delivery used by California and Florida flower shippers, 1969/70

·	· · · · · · · · · · · · · · · · · · ·		
Item	Calif.	Fla.	Total firms
	Nun	nber of f	irms
F.o.b. respondent's door	25	2	27
F.o.b. carrier in respondent's city	2	8	10
Sales—F.o.b. respondent's city; consignment-freight deducted by wholesaler		8	8
F.o.b. sultable carrier, distant city		3	3
Portions C.o.d.; portions F.o.b. respondent's city		1	1
To retailers—F,o.b. destination airport; to wholesalers—F,o.b. respondent's city		1	1
Total .,	27	23	50

freight charges paid by the purchaser. This practice was followed by more than half the firms interviewed and was used by 93 percent of the respondents in California.

Terms of Sale: Shipping Units—The shipping or packing units used by Florida respondents for shipments to out-of-State markets are given in table 35. The data from California are less detailed (table 36).

Boxes containing 20 to 30 bunches were mentioned most often by shippers of carnations and pompons. Twelve to 24 bunches per box were most common for shipments of roses. Standard chrysanthemums were shipped most often in boxes of 10 to 17 dozen and gladioli in hampers of 20 to 30 dozen. Potted chrysanthemums were shipped in boxes containing 6 or 8 pots.

Modes of Transportation Used—The proportions of California and Florida shippers who used each of four modes of transportation (air, rail, truck, and bus) in making out-of-State flower shipments are given in table 37. Responses were obtained from each of the 50 firms for the year 1969 and from 31 of these firms for 1964. Data for the 31 firms are compared in tables 37-39.

For the combined two-State area, the trend is toward use of air and bus facilities by more firms, an important decrease in the proportion of firms making rail shipments, and a stable or slightly declining number of firms making shipments by truck. The proportion of responding firms in the two-State area making air shipments increased from 90 percent in 1964 to 97 percent in 1969, with the greatest increase occurring in Florida. Percentages of responding firms using bus facilities increased from 29 to 35 percent during this period.

The proportion of respondents in the combined shipping points making rail shipments declined from 26 percent in 1964 to 0 percent in 1969.

The Federal-State Market News Service has estimated the volume of chrysanthemums and gladioli shipped from Florida by transportation mode used (table 40). Standard and pompon chrysanthemums are combined in these estimates.

The estimated percentages moving by air and truck are comparable with those obtained from the personal interview survey, except that the interviews indicated larger proportions shipped by truck in 1964. The interviews, therefore, indicate a slight decrease in proportion of these flowers moved by truck in 1969 while the Market News Service figures show a slight increase. The personal interview estimate for 1964 is based upon records of 31 firms.

Table 35.—Terms of sale: Shipping units used by Florida shippers, of flowers, 1969/70

Shipping units	0.	, CI	nrysanthemur	ns		
Subbing tures	Carn.	Standard	Pompons	Potted	Gladioli	Roses
		Per	cent of respon	ises		
ches per box: 1 2-24 bunches/box 2-30 3-20 to retailers; 25-40 to wholesalers 4 full punches or 30 1/2-bunches 5 by truck; 35 by air 1.0ches/box not specified	67		70 6 6 6 6			50 25
ens per box: I-17 dozen/boxirs of "1/2-boxes" of 6 dozen each taped together		56 11				
ens per hamper: I-30 dozen/hamper					86 7	
in boxes of 125-150 blooms		22				
es of G-8 pots				50		
ndication	33	11	6	50	7	25
rtal	100	100	100	100	100	100

inches vary in size, but are normally 25 blooms of carnations, dard mums, or roses. For pompons, it is usually not fewer

than 5 stems weighing a minimum of 12 ounces.

Table 36.—Terms of sale: Shipping units used by flower shippers in California and Florida, 1969/70

			III Cani	Ottila at	d Florid	a, 1203/1			·			
			Califo	ornia					Flo	rida		
Shipping unit		Chi	rysanthen	nums				Chi	ysanthen	nums		
	Carn,	Std.	Pom.	Pot.	Glads,	Roses	Carn.	Std.	Pom,	Pot.	Glads,	Roses
					1	Vumber c	of shippe.	rs				
inches in boxes:												2
12-24 bunches/box						1			12			2
20-30	2						2		12			
36												
18-20 to retallers; 25-40									1			
to wholesalers									•			
30 1/2-bunches									1			
30 by truck; 35 by air	18	2	18			15			1			1
Bunches/box not	70	-	10									
specified												
zens in boxes:												
Q-17 dozen/boxes								5				
Pairs of "1/2-boxes of												
6 dozen each taped												
together								1				
Dozen/box not												
specified		1										
ozen in hampers			1								12	
20-30 dozen/hamper												
12-25 to retailers; 20-25											1	
to wholesalers												
Dozen/hamper not					11							•
specified					11			•				
ik in boxes								2				
125-150 blooms												
Blooms/box not		13			·							
specified				3						2		
mixed boxes of other												
flowers										2	1	1
o Indication			1		3 4 4		1	-1	1	. 2	1	7
Total	20	16	18	3.	11	16	3	9	17	4	14	, 4.

Table 37.—Proportion of California and Florida shippers using various modes of transportation, 1964 and 1969

Years and States	Air	Rail	Truck	Bus	Total responses
	-	Nur	nber of firms		
1964					
California	17	3	15	6	17
Florida	11	4	13	3	14
Total	28	7	28	9	31
1969					
California	17		14	8	17
Florida	13	0	13	3	14
Total	30	0	27	11	31

Quality Claims and Rejected Shipments—Twenty-five percent of all respondents considered rejected shipments and quality claims important problems, with the percentage varying by State from 19 in California to 30 percent in Florida (table 41).

The 12 respondents who indicated that rejected shipments and quality claims were important problems were asked if these claims usually resulted from quality deterioration in transit or from other reasons (such as errors or misunderstandings about quality specifications)(table 42). Although two California respondents indicated that errors in quality specification between buyer and seller or grading were occasional problems, the 12 firms gave quality deterioration in transit as the important reason for rejected shipments and quality claims. Freezing and overheating during layovers at air terminals were blamed most often, and rough handling in all modes of transport was also important. Lost shipments and deliveries left in extreme cold or direct sunlight at retail floral shops were also

All respondents were asked what percentage of their shipments (in terms of volume) resulted in claims against carriers in 1969 (table 44). Although large differences were not found, more difficulty was attributed to air carriers than to other modes of transportation. Buses were second in importance of claims, and trucks were rated best. Twelve percent of the firms using air transportation estimated that more than 5 percent of the volumes shipped by this mode resulted in claims. Twelve percent of those who used buses estimated claims above

this level, and the 5-percent claim level was given by 7 percent of those who shipped by truck. Claims amounting to more than 2 percent of volume shipped were indicated by a larger proportion of respondents who shipped by bus, however, than by those who used the other transportation modes. The higher proportion of claims were indicated most often by Florida respondents.

Consistency of Quality Grading—The respondents were asked who grades or designates the quality of the flowers they ship, and if these grades or quality designations are consistent over the complete season and during all market conditions (table 45). Almost without exception, the floral crops are sorted for quality or, in the case of gladioli, graded by the grower. The wholesalers who purchase from growers depend upon the grading or sorting done by the growers.

The growers who do the sorting or grading believe the quality is consistent. Many of the wholesalers, however, believed that the quality or grade designations are not consistent over the entire season. This was true even for gladioli, for which a more rigid grading system has been devised. The wholesalers indicate that as the season progresses and the quality of the crop declines, the quality requirements of given grades are relaxed.

Growers and wholesalers agreed that the reputations of individuals and experience between buyer and seller are the factors considered in transactions, rather than grades or standard quality designations on specific lots of flowers.

MARKET PERFORMANCE FACTORS

Prices—Average prices received in 1969 by shippers for the six flowers specified were estimated using the physical volumes and gross sales receipts given by these respondents. The price ranges recorded for each type of flower are wide because of the different types and geographic areas represented (appendix tables 13-18).

California shippers apparently received lower prices than Florida shippers for each type of flower except gladioli and potted mums. Florida, the most important gladioli-producing State, received lower prices for them. The sample of shippers of potted chrysanthemums was too small for definitive answers.

Price Comparisons, 1964-69—Some shippers interviewed gave both quantities and dollar receipts of 1964 sales of the specified flowers. These data were used in computing average per unit values, which were assumed as prices. Percentage changes in average prices for 1969 versus 1964 were calculated for these firms and are summarized in table 46.

			1964						1			
State and type of		Ō	Chrysanthemums	ns				Ö	Chrysanthemums	su		
transportation	carn.	Std.	Рот.	Pot.	Glads.	Roses	Carn.	Std.	Pom.	Pot.	Glads.	Roses
	1,000 blooms	1,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms	1,000 blooms	I,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms
California												
Air	19,298	2,648	106	:	Ħ	8,485	29,322	5,484	255	;	20	10,570
Rail	224	54	10	;	(1)	223	:		:	:	•	. ;
Truck	2,644	469	35	40	ი	594	4,183	680	59	in in	14	326
Bus	347	94	12	:	2	643	623	104	7	(;)	9	573
Total	22,513	3,265	163	40	22	9,945	34,128	6,268	321	51	40	12,069
Florida												
Air	!	;	167	43	254	:	ស	;	298	11	583	,
Rail	4	4	m	:	167	11	:	:	:	;	;	:
Truck	:	:	2,084	383	3,101	:	;	588	2,350	104	3,417	:
Bus	4	ເດ	12		4	11	15	72	14	:	16	36
Total	ω	Ø	2,266	426	3,526	22	20	999	2,662	115	4,016	36
Total												
Air	19,298	2,648	273	43	265	8,485	29,327	5,484	អ មា មា	13	603	10.570
Rail	228	59	13	:	167	234		;		::	:	1
Truck	2,644	469	2,119	423	3,111	594	4,183	1,268	2,409	:	3,431	826
Bus	351	92	24	•	9	654	638	176	21	155	22	402
Total	22,520	3,275	2,429	466	3,549	9,967	34,148	6,928	2,983	166	4,056	12,105

Table 39.—Percentage of volume shipped by transportation mode, 31 California and Florida firms, 1964 and 1969

Pom. Pot. Glads Roses Carn. Stan. Pot. Pot. Pot. Chryanthemums Chryanthe			1060.	Downson					į				
transportation Cam. Stat. Poor. Procent Procent <t< th=""><th>State and</th><th></th><th></th><th>rei centage (</th><th>of volume re,</th><th>ported</th><th></th><th></th><th>1969</th><th>Percentage o</th><th>of fort of tipers</th><th></th><th></th></t<>	State and			rei centage (of volume re,	ported			1969	Percentage o	of fort of tipers		
formula Percent Percent <t< th=""><th>transportation</th><th>Cam</th><th>U</th><th>hrysanthemur</th><th>ms</th><th></th><th></th><th></th><th></th><th></th><th>A HUU I BUIL</th><th>Diame</th><th></th></t<>	transportation	Cam	U	hrysanthemur	ms						A HUU I BUIL	Diame	
Percent Perc			Stan,	Pom.	Pot.	Glads	Roses	Carm.	- 1	Trysanthemu	ШS	3	(
1 100		Percent	Percent	Percent	n n				Stan.	Pom,	Pot.	5	180H
1	California				Iuoona	Percent	Percent	Percent	Pereent	Pereint	Percent	Percent	Percent
1	Air Rail Truck Bus Total	36 1 12 100	81 12 100 100	65 6 22 7 100	100	48 1 41 100	85 2 6 7 100	86 12 100	87 11 2 100	80 18 2 100	100	50 35 15	87 7 6 100
86 81 11 9 7 85 86 79 18 7 15 12 14 87 91 88 6 12 18 81 93 84 100 100 100 100 100 100 100 100 100 100 100 100	Air Rail Truck Bus Total	, , 49 ,	50 50 100	92 100	10 90 100	7 5 88 	50 50 50 100	25 75 100	 89 11 100	11 88 1	10 90 100	15 85 	100
		36 12 12 100	81 2 14 3 100	11 1 87 1 100	91. 91	7 5 88 	88 66 66	112 86	79 18	18 18 18	93	15 1	37 7 6

Table 40.—Federal-State Market News Service estimates of Florida shipments by transportation mode, 1963-64 and 1968-69

	1963-0	54	1968	-69
Shipment	Volume	Percent	Volume	Percent
	Cartons	Percent	Cartons	Percent
Chrysanthemums				
Air Truck	51,491 361,674 89,809	10 72 18	73,346 545,151 2,490	12 88 (¹)
Total	502,974	100	620,897	100
Gladioli				
Air	64,929 469,602 251,622	8 60 32	140,789 586,537 16,132	19 79 2
Total	786,153	100	743,458	100

Table 41.—Respondents' opinions of importance of rejected shipments and quality claims by buyers, California and Florida shippers, 1969/70

quanty ciains	DA BOLO	,				 -
Opinion	Calif.	Fla.	Total	Calif.	Fla.	Total
	Number	Number	Number	Percent	Percent	Percent
Important problem	5	7	12	19	30	24
Not important	22	16	38	81	70	76
Total	27	23	50	100	100	100

Table 42.—Reasons for rejected shipments and quality claims, 50 California and Florida flower shippers, 1969/70

Table 43.—Claims adjustment policies, 50 California and Florida flowers shippers, 1969/70

Reason	California	Florida	Total	Claim	California	Florida	Total
	Number	Number	Number	-	Number	Number	Number
Quality deterioration in transit only	3	7	10	Quarantee shipments and file claims	2	3	s ·
Deterioration in transit and errors in specification of quality	2		2	File claims but not quarantee reimbursement	3	4	7
Total	_	7	12	Total	5	7	12

Table 44.—Portions of out-of-State shipments resulting in claims against carriers, 48 California and Florida flower shippers, 1969/70

		Percent o	of shipments			Percent o	f shipments	
Carriers	0-1	2-5	Over 5	Total	0-1	2-5	Over 5	Total
· · · · · · · · · · · · · · · · · · ·			er of firms			Percent	of firms	
Air				26	84	12	4	100
California	22 14	3 3	» 1 5	22	63	14	23	100
Total	36	6	6	48	76	12	12	100
Truck				20	95	0	5	100
California	19 14	0 4	2	20	70	20	10	100
Total	33	4	3	.40	83	. 10	7	100
Bus			14.7	10	90	0	10	100
California	9 4	0 2	ī	7	57	29	14	100
Total	13	2	2	17	76	12	12	100

Table 45.- Flower shippers opinions of flower quality, California and Florida, 1969/70

Are grade designations consistent throughout		Growers			Wholesalers	
the season?	Yes	No	Total	Yes	No	Tota
			Numbe	er replies		
California						
Carnations	5		5	10	5	15
Standard mums	3		3	8	5	13
Gladioli	1	1	2	8	1	9
Roses ,	4		4	8	4	12
Standard mums	5		5	3	,	4
Gladioli	9	1	10	2	2	4

Table 46.—Changes in prices received, California and Florida flower shippers, 1964-69

1-15	Flower	No change		Percenta	ge increase		
California		- "	1-15	16-30	31-50	51+	Total
California Growers				Percent of fi	rms reporting		
Standard Mums	Carnations						
Wholesalers 46 18 18 18 18 100 Alf California 47 27 13 13 100 Standard Mums California 30 100 100 100 Wholesalers 60 40 20 100 100 Pompons 50 50 100 100 100 California 34 33 25 8 100 100 Florida 34 33 25 8 100 </td <td>California</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	California						
Wholesalers 46 18 18 18 100 All California 47 27 13 13 100 Standard Mums California 100 100 100 100 Wholesalers 60 40 40 100 Pompons California 50 50 100 Wholesalers 30 40 20 10 100 Mil California 34 33 25 8 100 Florida Growers and co-ops 70 20 10 100 All Florida 67 17 8 8 100 Sladioli California 37 100 Wholesalers 50 13 37 100 All California 45 22 33 100 Wholesalers 50 25 12 13 100 Wholesalers 50 50 50 50 50 100 Wholesalers <td>Growers</td> <td>50</td> <td>50</td> <td></td> <td></td> <td></td> <td></td>	Growers	50	50				
All California 47 27 13 13 13 100 Standard Murms California Growers 60 40 40 100 Wholesalers 70 50 40 100 All California 34 33 25 8 100 All Florida 67 17 8 8 8 100 Growers 70 100 All Florida 67 17 8 8 8 100 All Florida 70 100 All California 70 100 All Florida 70 100 All Florida 70 100 All California 70 100 All Florida 70 100 All Fl	Wholesaters	46		18	10		
Standard Mums California Growers	All California	47					
Wholesalers	California						100
Windlesalers 60 40 40 10 20 10 100 Windlesalers 50 45 45 100 Pompons California Growers 50 50 50 100 Florida Growers 40 40 40 20 10 100 All Florida 67 17 8 8 8 100 All Florida 67 17 8 8 8 100 All California 50 100 Wholesalers 50 100 All Florida 67 17 8 8 8 100 All Florida 67 17 8 100 All Florida 67 100 All California 67 100 Wholesalers 50 100 Florida 700wers 100 Wholesalers 50 100 Wholesalers 50 100 Wholesalers 50 100 All California 60 100 Florida 700wers 100 Florida 700wers 100 Florida 700wers 100 California 700wers 100 Californi	Growers			100			
Pompans California Growers	Wholesalers		60				
Pompons California Growers	All California		55				
Wholesalers 30 40 20 10 100 All California 34 33 25 8 100 Florida Growers and co-ops 70 20 10 100 Wholesalers 50 10 50 100 All Florida 67 17 8 8 100 Gladioli California 0 <	-						100
Wholesalers 30 40 20 10 100 All California 34 33 25 8 100 Florida Growers and co-ops 70 20 10 100 All Florida 67 17 8 8 100 Gladioli California 0 100	Growers	50					
All California 34 33 25 8 10 100 Florida Growers and co-ops 70 20 10 50 100 All Florida 67 17 8 8 8 100 Sladioli California 37 100 Wholesalers 50 13 37 100 All California 67 22 33 100 Florida 68 22 33 100 Florida 69 25 12 13 100 All Florida 69 20 10 20 100 All Florida 69 25 12 13 100 All Florida 69 25 12 13 100 All Florida 69 25 12 13 100 All Florida 69 25 10 100 All Florida 70 20 100	Wholesalers		40				100
Florida Growers and co-ops	All California						100
Total California		<u>.</u>	33	25	8		100
Wholesalers							
## Solution	Growers and co-ops	70		20	10		
All Florida 67 17 8 8 8 100 Gladioli California Growers 100 Nholesalers 50 13 37 100 Florida Growers and co-ops 50 25 12 13 100 Vholesalers 50 25 12 13 100 All Florida 40 10 20 10 20 100 Coses California Growers 50 50 California Growers 50 50 California Growers 50 50 Cholesalers 50 50 Choles	Wholesalers	50		20	10		
California Cal	OR Florida					50	100
California Cal	All Florida	67		17	8	8	100
California Growers Wholesalers All California Florida Growers and co-ops Wholesalers 50 13 37 100 Florida Growers and co-ops 50 25 12 13 100 All Florida 40 10 20 10 20 100 Coses California Growers California Growers California Growers 50 50 California California 50 50 Californi	Gladioli					J	100
100 100	California						
Wholesalers 50 13 37 100 All California 45 22 33 100 Florida 50 25 12 13 100 All Florida 40 10 20 10 20 100 closes California 50 50 50 100 wholesalers 50 50 50 100 Wholesalers 50 38 37 25 100 All California 10 40 30 25 100	Growers						
Alf California	Wholesalers		50				100
Florida Growers and co-ops 50 25 12 13 100 All Florida 40 10 20 10 20 100 Coses California Growers 50 50 50 Wholesalers 50 50 Wholesalers 38 37 25 100 Id California 10 40 30 30 900	All California						100
Strowers and co-ops			43	22	33		100
Solution 50 12 13 100 All Florida 40 10 20 10 20 100 Oses California 50 50 /holesalers 38 37 25 100 All California 10 40 30 30 30							
Total Tota	Frowers and co-ops	50		0.5	4.0		
All Florida	Vholesalers		50	25	12		100
Coses California 50 50 50 7holesalers 10 40 30 100 100 100 100 100 100 100 100 100			• •			50	100
Oses California 50 50 50 7holesalers 10 40 30 100 100 100 100 100 100 100 100 100	All Florida	40	10	20	1.0		
California frowers				Ζ0	10	20	100
7 50 50 50 50 50 50 50 50 50 50 50 50 50							
# 100 100	California						
Il California 10 40 30 25 100	theless	50	50				
10 40 30 20 100	diotesalers		38	37	25		
30 20 100	ur Camornia	10		30	25 20		

Just over half the California shippers of carnations who reported 1964 prices indicated increases in average prices received over the 5-year period. The proportions were about the same for growers and wholesalers.

Increases in standard chrysanthemum prices of from 1 to 30 percent were indicated for all reporting California shippers of these flowers.

Only one-third of the reporting Florida pompon shippers indicated price increases for this crop, while increases were shown for two-thirds of the California respondents who shipped pompons. The price increases reported by Florida respondents were greater, however, than for the California firms.

Increases in prices received for gladioli were indicated by all the reporting California shippers, while only 60 percent of the Florida gladioli shippers experienced increases. Ninety percent of the California shippers of roses who reported 1964 prices experienced price increases in the period 1964-69. Price Differences Among Markets—Sixty-three percent of all respondents (70 percent of California and 43 percent of Florida) believed there were no price differences among markets (table 47).

Table 47.—Opinions of price differences among geographic markets, California and Florida flower shippers, 1969/70

amphera,	1000,.0		
Opinion on price difference	California	Florida	Total
	Nu	mber of fir	ms
No differences among markets	19	10	29
Differences described:	ŧ		
Major big-city markets			
a, offer consistently lower	5	6	11
prices b. fluctuate more rapidly	, ,	·	**
with market conditions.		4	4
Higher prices in immediate]		
southeastern States (Florida		2	2
respondents only) Transportation improvements	5	-	-
are reducing differences			
among markets	l .	1	1
Random variation among all			
markets at all times	1		1
Miscellaneous	2		2
Total	27	23	50

Twenty-six percent of those interviewed stated that there were differences between the prices received in the major flower markets in large cities versus those obtained in smaller cities and towns. Nineteen percent of the California respondents and 26 percent of those in Florida believed that prices were consistently lower in the major big-city markets. Most of these firms concentrate their marketing activity toward retail florists and occasional wholesalers in smaller cities and towns. In periods of depressed prices, they market in the major markets by consignment.

Trend in Sales Volume per Firm—All California respondents who shipped carnations and standard chrysanthemums in 1964 reported either stable or increased sales of these flowers in 1969 (table 48). California shippers indicated reductions in sales of pompons, gladioli, and roses by 17, 25, and 11 percent, respectively.

Appromixately 10 percent of the Florida shippers of pompons and gladioli indicated no change in sales volumes of these flowers in 1969 over 1964.

Markup on Flowers Purchased for Resale—The respondents who purchased flowers for resale noted a normal markup of 21 to 30 percent above purchase price for each flower type except potted chrysanthemums and gladioli (table 49). Markups of from 31 to 40 percent were second in importance.

Table 48.—Changes in volume sold per firm, California and Florida flower shippers, 1968/69

					Percent increas	e	Total
State and shipper	Reduction	No change	1-50	51-100	101-200	201+,	1014
Callfornia	Percent	Percent	Percent	Percent	Percent	Percent	Percent
Carnations:	1 6,000	10,000					100
Growers		50	50			9	100
Wholesalers		18	55		18	7	100
All firms		27	53		13	,	100
Standard mums:		100					100
Growers		100	56		11	11	100
Wholesalers		22	50		10	10	100
All firms		30	50				
Pompons:		50				50	100
Growers		30	30		20		100
Wholesalers	20	33	25		17	8	100
All firms	17	33	2.0				
Gladioli:		100					100
Growers		29	28		14		100
Wholesalers	29	38	25		12		100
All firms	25	38	23				
Roses:			50				100
Growers	50	29	43			28	100
Wholesalers	1	22	45			22	100
All firms	11	24	,,				
Florida							100
Pompons:	10	40	30	20		50	100
Growers and co-ops	10			50		ວບ	100
Wholesalers			05	25		8	100
All firms	8	34	25	2.4			
Gladioll:			13	50			100
Growers	12	· 25	50				100
Wholesalers		50					100
All firms	100	30	20	40			

Table 49.—Markup on flowers purchased for resale, responses of California and Florida flower shippers, 1969/70

,	Percentag	e markon ¹				
		w mankap				
10-20	21-30	31-40	Over 40	Received consigment	No response	Total
Percent	Percent	Percent	Percent	Percent	Percent	Percent
6	50 67	25 33	13		6	100 100
21	50 67	22 33	7			100 100
7	66 60	13 20	7 20		7	100 100
	50 50	50 50				100 100
10	30 80	40 20	10		10	100 100
8	54 67	31 33	7			100 100
	Percent 6 21 7	Percent Percent 6 50 67 21 50 67 7 66 60 50 50 10 30 80	Percent Percent Percent 6 50 25 67 33 21 50 22 67 33 7 66 13 60 20 50 50 50 50 50 50 50 50 80 20	Percent Percent Percent Percent 6 50 25 13 67 33 7 21 50 22 7 67 33 7 7 66 13 7 60 20 20 50 50 50 50 50 50 50 50 50 50 20 20	Percent Percent Percent Percent Percent 6 50 25 13 67 33 7 7 66 13 7 60 20 20 50 50 50 50 50 50 50 50 50 50 20 20	Percent Percent Percent Percent Percent Percent 6 50 25 13 6 21 50 22 7 67 33 7 7 60 20 20 7 50 50 50 50 50 50 50 50 10 30 40 10 10 8 54 31 7

¹ Difference between purchases and sales price as a percentage of purchase price,

More shippers specified higher markups (above 30 percent) for potted mums and gladioli than for the other flower types. Standard mums and roses were second in importance in proportion of respondents indicating these higher markups, followed by pompons and carnations. Markups of 21 to 30 percent were mentioned most often by both California and Florida respondents.

Approximately half the respondents who purchased flowers for resale in 1969 indicated that the margins realized on these flowers varied with market supply and demand conditions (table 50). Most were California respondents. They constituted 63 percent of the shippers interviewed in that State.

Table 50.—Flexibility of markup on flowers purchased for resale, California and Florida flower shippers, 1969/70

Markup trend	Calif,	Fta.1	Total
	Number	Number	Number
May reduce markup in glut market, raise in good			
market (not mentioned)	4	. 1	5
Reduce markup in glut market, raise in good market	6	•	6
May reduce markup in			٠.
good market	2		2
Varkup does not vary,	7	5	12
Total	19	6	25

¹ Cooperative omitted.

EXPECTED TRENDS IN DEMAND, PRODUCTION, AND TYPES OF FIRMS

Consumer Demand—Three-fourths or more of the respondents in each State who expressed opinions concerning carnations, standard and potted chrysanthemums, and roses believed that consumer

demand for these crops was increasing (table 51). A similar optimistic view was expressed for pompons in Florida. A more pessimistic demand outlook was given for gladioli in Florida and for pompons in California.

Table 51.-Flower shippers opinions of trends in production of specified flowers, California and Florida, 1969/70

		1969/70				
Flower and State	Decreasing	Stable	Increasing	Total opinions	No apinions	Total respondents
			Number	of replies	,	
ļ.		497 In. 17				
nations		6	17	23	a	27
alifornia		U	4	4	19	23
lorida		6	21	27	23	50
ndard mums		_	15	19	8	27
alifornia	_	4	15 6	8	15	23
lorida	1	1 5	21	27	23	50
.II	1	5	21	21		
mpons			12	21	-G	27
alifornia	_	9 2	12	16	7	23
torida	2	11	24	37	13	50
dl	2	11	2-7	4.		
ted mums	_		7	8	19	27
alifornia	1		5	6	17	23
Torida	1		12	14	36	50
All	2		12			
idloli		•	9	14	13	27
allfornia	2	3	4	14	9	23
florida	2	8 11	13	28	22	50
All	4	11	20			
sos		2	14	17	10	27
California		3	4	5	18	23
Florida		1 4	18	22	28	50
All						Zlovida shint

nly 29 percent of the Florida respondents who spressed opinions felt demand for gladioli to be Fifty-seven percent of the opinions creasing. California pompons indicated increasing oncerning emand.

roduction Expectations by Area-More than 50 ercent of the California respondents who expressed pinions expected production of carnations, standard nd potted chrysanthemums, and roses to increase in nat State. Twenty-six percent expected pompon roduction to increase, and only 9 percent expected icreased gladioli production.

Approximately two-thirds of the Florida shippers who indicated opinions concerning future production of standard and potted chrysanthemums expected increases in volumes of these flowers (table 52). Only 42 percent expected increases in pompons. Seventy percent of the responding shippers believed that production of gladioli, the most important floral crop in Florida, would remain stable. Production of carnations and roses in Florida, which are not important floral crops in that State, were not expected to increase.

Exterior Developments Affecting Industry-Most shippers believed that developments exterior to the

Table 52.—Expected trends in supplies of selected flowers, California and Florida, 1969/70

Table 52.	-Expected tre	ends in sup	plies of selecte	ed flowers, C	California and	Florida, 150		
Flower and State	Substantial decline	Slight decline	No change	Slight increase	Substantial increase	Total opinions	No opinions	Total firms
		<u></u>		Numbe	r of replies			
Callfornia Carnations		4 3 3 2 5 4	3 5 10 1 5 3	9 6 4 3	5 3 1 1 7	21 17 19 6 11 21	6 10 8 21 16 6	27 27 27 27 27 27
Carnations	1 1	2 3 2 1	6 1 7 2 11 4	1 9 8 2 3 2	4	7 14 19 9 16 7	16 9 4 14 7	23 23 23 23 23 23 23

floral industry would have little effect on the future of their business (table 54). Urban development and the resulting increased property taxes were mentioned most often by those who were concerned, principally in Florida. Smog was second in importance as an exterior hindrance in California. One Florida respondent indicated that work stoppages by transportation and cemetery workers occasionally affect his sales.

Several respondents mentioned the favorable effect of the affluent society upon demand for flowers, the effects of weather (other than smog), and foreign competition. These replies were not included.

Barriers to Entry of New Firms—The respondents indicated few barriers to entry of new firms to the flower-growing or wholesaling industries. Cost and unavailability of suitable land were mentioned as barriers in California. References to large investment requirements (other than for land), unavailability of

credit, and foreign competition were mentioned by both California and Florida shippers, but were not considered important barriers to entry of new firms.

Table 53.—Flowershippers' opinions of external factors affecting ornamentals industry, California and Florida, 1969/70

Factor	Calif.	Fla.	Total
	Nu	nber of re	plies
None Urban development and	18	13	31
increased property taxes	2	9	11
Urban taxes and smog	2	-	2
_abor strikes of transportation and cemetary	5		5
workers		1	1
Total	27	23	50

Appendix table 1.—Volumes sold, selected floral crops, 23 States, California and Florida, 1956-70

7000				<u> </u>				Year							
production area	Unit	1956	1957	1958	1959	1961	1962	1963	1964	1965	1966	1961	1968	1969	1970
		7.	Number Number		Number N	Jumber 1	Number Number Number Number	Number 1	Vumber 1		Number	Number Number		Number	Number
Carnations 23 States California	1,000 blooms	99,950	102,468	114,251	 134,271 1 568	135,040	135,040 152,288 180,142 188,819 (²) (²) (²)	180,142	188,819	198,460	531,856 551,856 244,399 264,871 (²)		630,145 321,484 (²)	693,206 372,762 (²)	713,325 382,723
Standard mums 23 States California	1,000 blooms	24,266 1,223	25,598 754	27,987	36,579	38,708 3,737	43,413 4,524	52,747	46,395 6,649	50,904	133,688 61,653 9,289	133,312 61,658 9,137	130,869 62,368 10,192	136,778 70,654 10,042	147,000 81,465 9,270
Pompons 23 States California	1,000 bunches	3,680	2,912	2,928	3,936	3,302	3,469	4,204	4,789 9,425	5,373	28,433 6,081 11,771	27,560 5,791 11,391	30,497 7,841 12,521	32,903 9,571 13,447	32,431 9,956 11,829
Potted mums 23 States California	1,000 pats		:::	;;;	;;;	;;;	:::	!!!		; ; ;	11,070 1,454 1,112	12,897 2,162 1,366	13,403 2,291 1,443	14,260 2,339 1,697	16,164 3,064 2,040
Gladioli 23 States California	1,000 dozen	2,308	2,120	2,164	2,489	2,367	2,542 16,480	2,823	2,831	3,456	28,619 3,835 17,858	25,748 3,516 16,258	28,080 3,660 17,905	27,170 3,566 17,366	23,360 3,104 13,854
Roses 23 States California	1,000 blooms	67,450	67,414	67,789	13,987	73,599	79,325	80,825	86,603	94,450	363,172 106,541 5,618	363,144 113,634 5,384	363,144 408,854 113,634 142,207 5,384 5,122	427,398 156,169 3,364	438,275 156,699 2,519

¹No estimates made for 1960 crop year; estimates for 23 States totals and for potted mums begun 1966. ² Florida not published to avoid disclosure of individual operations.

Appendix table 2.—Wholesale value of sales, selected floral crops, 23 States, California and Florids, 1956-70

Flower and											12-00e1 'miles	2.7.0		
production area							Year	ar¹						
	1956	1957	1958	1959	1961	1962	1963	1964	1965	1966	1967	1969	0001	
	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000 dollars	1,000	1,000	1,000	1,000	1,000	1,000	1,000
Carnations 23 States	•								Second	aoitars	dollars	dollars	dollars	dollars
Florida	4,198	4,816	5,484 (²)	6,368 54	6,693 (²)	7,518 (2)	9,156 (²)	9,428	10,498	37,675 13,302	40,174 14,999 ,3,	44,898 18,471	47,696 20,566	47,750 21,895
Standard mums 23 States										2		C	()	£
California	205	2,867 139	2,827	4,335	4,660 545	4,784 712	5,975	5,480	6,195	23,320	24,416 8,016	26,426	26,813 9,962	26,925 10,590
Pompons 23 States))	1	1,504	1,804	1,833	1,863
California Florida	1,218	1,107	1,025	1,678	1,646	1,713	2,200	2,311	2,907	3,589	3.527	25,636	27,195	26,651
			1	ָר. הריים	768'C	6,250	7,656	5,426	6,965	8,241	8,778	9,591		8 705
Potted mums 23 States	·)	3
California	 -				-					15,875	18,176	19,595	21,938	24,598
										1,787	2,359	2,630	2,948	4,124
Gladioli -23 States												1	11017	†C+'7
California Florida	1,249	1,166	1,212	1,377	1,416	1,595	1,803	1,747	2,236	18,860	17,753	21,115	21,343	18,725
Roses	<u>.</u>		t	7,382	8,443	9,410	9,793	9,431	9,427	11,706	10,841	3,473	3,387 13,129	3,111
23 States						0								
Florida	4,114	4 ,180 (2)	4,406 (2)	4,929 114	4,966	5,502	5,875	6,627	7,890	40,739 9,327	42,331	49,229 13,245	53,858 14,512	53,967 14,113
INO perimates	2004						}	3	745	4. 5.54	486	516	372	284
estimates for 23 State totals and for potted	totals and	crop year; for potted		avoic	disclosure	of individ	avoid disclosure of individual operations,	ons.		Produ	Production and Sales in	Sales in	Selected States	of the
mums began 1966. Florida not published to	lorida not p	ublished to	a	Sou	Source: Flowers	ers and	Foliage	Plants,		Dept.	Dept. Agr., SF	SRS, Stat.	Buf. No. 442	442 and
								•		1	**			

Appendix table 3.—Plants or acres in production, selected floral crops, 23 States, California and Florida, 1956-70

								> >	 						
							-	-	-		ì				1970
production area	ti C	1956	1957	1958	1959	1961	1962	1963	\$96°	1965	1966	1967	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	n p	
Carnations 23 States California	1,000 plants	9,264	9,300	10,393	12,940	12,360 (²)	13,335 (²)	15,536	15,689 (?)	16,333	60 00 00 00 00 00 00 00 00 00 00 00 00 0	24,342 22,230 (*)	25.00 200,000 200,000	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0 0 0 0 0 0 0 0 0
Standard mums 23 States California	1,000 plants	12,521 819	12,171	14.561 368	22,538 1,452	25,594 3,174	ର ଜୁନ ଜୁନ ଜୁନ	36,038 4,644	32,53 7,563 563	11 in co	တ္ တ္ တ လုပ္လ်ပ္ ထုပ္လ်ပ္ ထုပ္လ် လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ်ပ္ လုပ္လ် လုပ္လံ လုပ္လံ လုပ္လံ လုပ္လံ လုပ္လံ လုပ္ လုပ လုပ လုပ လုပ လုပ လုပ လုပ လုပ လုပ လုပ	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ল বে ব ক ক ক ক ব	6 10 0 6 10 0 9 0 0 6 10 0 1 10 0	(a () e) (a (b) (b (d (d (c) (d (d (d (d (d (d (d (
	1,000 plants	10,224	8,813 22,144	9,427 21,735	12,495 24,783	10,921	11,339	13,482	12,719 48,750	13,952	119,686 18,494 66,741	115,078 17,987 62,668	226,436 22,730 70,160	1000 1000 1000 1000 1000 1000 1000 100	ପ ଜ୍ଞ ସ ଫ ଟ ନ ଜ ଠ ଏ ଜ ପ ଜ ଜ ପ ଜ ଜ ପ
Potted mums 23 States California	1,000 pot										11,799 1,530 1,188	13,372 2,207 1,366	13,950 2,351 1,527	15,120 2,466 1,847	26,939 3,126 2,521
Florida	sacues -									*** ***	13,387	12,667	12,934	13,129	11,595
23 States		099	594 8,000	630	731	989	770	796	734	904 7,489	30'9	8,071	8,364	8,473	7,192
Renos 23 Mates Egilbonia Estida	Amend GBUT	egy eres	(7 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °	6. C. S.	14 JT 18 JT 18 JT 18 JT 18 JT		13.00	t. 열 변경 	# # } # # } # # }	0.2	19,147 19,675 18,784 17,045 13,006 2,007 4	State of the state			
ing, estimates made the feet construction of the construction of t				years.	gend duziekie of Grooten Primeri		geofficial characturation of the state of th	eath Facts	,	, who are				Alex of the season of the seas	<u>.</u>

Appendix table 4.— Volumes and proportions of specified flowers shipped out-of-State, 50 California and Florida shippers, 1969/70

Area and type		C1	rysanthen	ums			1		Chrysan	themums		
of firm	Caro.	Std.	Pom.	Pot.	Glads	Roses	Carn.	Std.	Pom,	Pot.	Glads	Roses
	1000 blooms	1,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms	Percent	Percent.	Percent	Percent	Percent	Percen:
California												
Growers	14,020	649	306	50	284	5,469	29	7	29	86	48	38
Wholesalers	34,818	8,959	746	8	303	8,799	71	93	71	14	52	62
All California	48,838	9,608	1,052	58	587	14,268	100	100	100	100	100	100
Florida												
Growers and												
co-ops		3,485	3,713	519	7,089	440		99	98	100	87	34
Wholesalers	158	37	79	(1)	1,108	849	100	1	2	(1)	13	66
All Florida	158	3,522	3,792	519	8,197	1,289	100	100	100	100	100	100
Total												
Growers and												
co-ops , , ,	14,020	4,134	4,019	569	7,373	5,909	29	31	83	99	84	38
Wholesalers	34,976	8.996	825	8	1,411	9,648	71	69	17	1	16	62
All firms	48,996	13,130	4,844	577	8,784	15,557	100	100	100	100	100	100

Less than 0.5 percent.

Appendix table 5.—Volumes and proportions of California and Florida production represented by sample, 1969/70

Area and Sales		Chry	/santhemu	ms	1			Chry	santhem	ums		
- Alba and Salos	Carn,	Std.	Pom,	Pot.	Glads	Roses	Carn.	Std.	Pom.	Pot.	Glads	Roses
	1,000 blooms	1,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms	Percent	Percent	Percent	Percent	Percent	Percen
Callfornia Sample firms												
Total sales Out-of-State	51,503	10,572	1,224	280	926	18,473	. 14	15	13	12	26	12
shipments State production ²	48,838 372,762	9,608 70,654	1,052 9,571	58 2,339	587 3,566	14,268 156,169	13 100	14 100	11 100	2 100	16 100	9 100
Florida Sample firms												
Total sales Out-of-State	733	4,363	4,156	795	8,709	³ 5,370	(¹)	43	31	47	50	³ 163
shipments State production ²	158 (¹)	3,522 10,042	3,792 13,447	519 1,097	8,197 17,366	1,289 3,364	(¹)	35 100	28 100	31 100	47 100	38 100
Total Sample firms												
Total sales Out-of-State	52,236	14,933	5,380	1,075	9,635	23,843	14	19	23	27	45	15
shipments Fwo-State production ² .	48,997 372,762	13,130 80,696	4,844 23,018	578 4,036	8,784 20,932	15,562 159,535	13 100	16 100	21 100	14 100	42 100	10 100

¹Less than 0.5 percent, ²Flowers and Foliage Plants, Production and Sales in Selected States, U.S. Dept. Agr., SRS, Sp Cr6-1(70).

Appendix table 6.—Total sales volumes and proportions of specified flowers by type of firms, California and Florida flower shippers, 1969/70¹

	_	Chrysanthemums			01-4-	Roses	Carn.	Cr	arysanthei	านการ	Glads.	Roses
Area and type of firm	Carn.	5td.	Pom.	Pot,	Glads.	Koses	Callia	Std.	Pom.	Pot.	Ginus,	
1.0	1000 blooms	1,000 blooms	1,000 bunches	1,000 pots	1,000 dozen	1,000 blooms	Percent	Percent	Percent	Percent	Percent	Percent
California	ļ					c = 20	0.0	13	32	89	45	47
Growers	14,640	1,348	392	250	418	6,639	28	87	68	11	55	53
Wholesalers	36,863	9,224	832	30	508	9,834	72	-	100	100	100	100
All California	51,503	10,572	1,224	280	926	16,473	100	100	100	100	100	***
Florida	Ì								96	100	87	16
Growers		4,109	3,922	793	7,566	880		94		100	13	84
Wholesalers	733	253	164	2	1,143	4,490	100	6	4		_	100
All Florida	733	4,362	4,156	795	8,709	5,370	100	100	100	100	100	100
Total								27	81	97	83	34
Growers	14,640	5,475	4,314	1,043	7,984	7,519	28	37	19	3	17	66
Wholesalers	37,596	9,477	995	32	1,651	14,324	72	63		100	100	100
All firms	52,236	14,952	5,310	1,075	9,635	21,843	100	100	100	100	700	

¹Includes in-State sales.

Appendix table 7.-Age of firms, 50 California and Florida flower shippers, 1969/70

		Age in	years		Not available	Total firm	Mini- mum	Mean	Maxi- mum
Area and type of firm	1-3	4-10	11-25	Over 25	avallable				
<u> </u>			Numbe	r of firms				Year	
california Growers	2 2	 2	5 5 10	4 9 13		11 16 27	5 2 2	33 29 31	86 90 90
lorida Growers	2	2	10 1 ·11	4 2 6	1 1 2	19 4 23	3 23 3	18 28 20	42 32 42
Total Growers	2 2 4	4 4	15 6 21	8 11 19	1 1 2	30 20 50	1 2 1	27 28 27	100 90 100

Appendix table 8.—Years under present ownership, 50 selected California and Florida flower shippers, 1969/70

· ·	and Flo	rida flower	shippers, 1	969/70			T	<u> </u>	
Area and type	, Y	ears of pres	ent owners	ılp	Total firms	Min.	Mean	Max.	
of firm	1-3	4-10	11-25	Over 25		<u> </u>		<u> </u>	
		. 1	Vumber of	firms			Year		
California Growers Wholesaiers	2 3 5	1	6 4 10	3 8 11	11 16 27	2 2 2	25 26 26	70 90 90	
Florida Growurs Wholesalers All Florida	2	3 2 5	11 11	3 2 5	19 4 23	3 5 3	16 18 17	42 32 42	
Total Growers	4 3 7	3 3 6	17 4 21	6 10 16	30 20 50	•	••		

Appendix table 9.—Form of business origanization, 50 California and Florida flower shippers, 1969/70

Area and type of firm	Proprietorship	Partnership	Corporation	Cooperative	Total firm:
			Number of firms		
California					
Growers	3	2	6	-	11
Wholesaters	3	2	11	-	16
All California	6	4	17	-	27
Florida					
Growers	7.	2	g .	1	. 19
Wholesalers		1	3	-	4
All Florida	7	3	12	1	23
otal					
Growers	10	4	15	1	30
Wholesalers	3	3	14	•	. 20
All Firms	13	7	29	1	50

Appendix table 10.-Number business locations per firm, 50 California and Florida flower shippers, 1969/70

Area and type of firm		Nun	iber of loca	ations	Total	Number of locations				
3.11111	1	2	3	4 or 5	over 5	firms	Min,	Mean	Max	
		Nt	ımber of fi	rms			Number of locations			
⊇alifornia .						4				
Growers	10	1			·	11	1	1		
Wholesalers	13	1		1	1 .	16	1	1		
All California	23	2		ĩ	i	27	1	2	15 15	
Florida							_	-	40	
Growers	16		1							
Wholesalers	3	*	1	1		19	1	1	4	
All Florida	19		1	•		4	1	. 1	3	
	19	1	2	1		23	1	1	4	
otal										
Growers	26	2	1	1						
Wholesalers	16	1	1			30				
All firms	42	3	2	2	1	20 50				

Appendix table 11.—Firms handling products other than fresh flowers, 50 California and Florida flower shippers, 1969/70

Area and type of firm	Fresh flowers only	Other products included	Total firms	Fresh flowers only	Other products included	Total firms
	1	Number of firms			Percent	·
California						
Growers ,	11		11	100		
Wholesalers	16		16			100
All California	27		. 27	100		100
			41	100		100
lorida						
Growers & co-ops	12	7	10			•
Wholesaters	2	,	19	63	37	100
All Florida	14		4	50	50	100
	1-4	. A	23	61	39	100
otal						
Growers	23					
Wholesalers			30	77	23	100
All firms	18	2	20	90	10	100
All firms	41	9	-50	82	18	100

Appendix table 12.—Number of other flower types handled in important quantities, 50 California and Florida flower shippers, 1969/70

Area and type of firm	None	1-2	3-4	5+	Num- ber unspec- ified	Total firms	None	1-2	3-4	5+	Num- her unspec- ifled	Total firms
			Number	of firm	s				Per	cent		
California												
Growers	7	2	2			11	64	18	18			100
Wholesalers	3	3	6	3	1	16	19	19	37	19	6	100
All California	10	5	8	3	1	27	37	18	30	11	4	100
Florida												
Growers & co-ops	10	7	1		1	19	53	37	5		5 ·	100
Wholesalers		1			3	4		25			75	100
All Florida	10	8	1		4	23	43	35	4		18	100
Total												
Growers	17	9	3		1	30	57	30	-10		3	100
Wholesalers	3	4	6	3	4	20	15	20	30	15	20	100
All firms	20	13	9	3	5	50	40	26	18	6	10	100

Appendix table 13.—Carnations: Prices received by California and Florida flower shippers, 1969/70

	C	nts per bloc	m			Ce	nts per blo	om
Area and type of firm	5-7	8-10	11-14	Not available	Total firms	Minimum	Average	Maximum
	Number of firms	Cents	Cents	Cents				
California	_	_			r	E 0	e 4	8,3
Growers,	3	2			5	5.0	6.4	12,0
Wholesalers	6	8	Ţ		15	6.0	8.1	
All California	9	10	1		20	5.0	7.6	12.0
Florida		*						
Growers and co-ops	,							
Wholesalers	į	1	2		3	10.0	11.3	12.0
All Florida		1	2		3	10.0	11.3	12.0
Total								
Growers	3	2			5			
Wholesalers	6	. 3	3		18			
All firms	9	11	3		23			